

# Iowa Science Teachers Journal

---

Volume 26 | Number 2

Article 1

---

1989

## Cover - Front Matter - Table of Contents

Follow this and additional works at: <https://scholarworks.uni.edu/istj>



Part of the [Science and Mathematics Education Commons](#)

---

### Recommended Citation

(1989) "Cover - Front Matter - Table of Contents," *Iowa Science Teachers Journal*: Vol. 26 : No. 2 , Article 1.  
Available at: <https://scholarworks.uni.edu/istj/vol26/iss2/1>

This Front Matter is brought to you for free and open access by UNI ScholarWorks. It has been accepted for inclusion in Iowa Science Teachers Journal by an authorized editor of UNI ScholarWorks. For more information, please contact [scholarworks@uni.edu](mailto:scholarworks@uni.edu).



# **IOWA SCIENCE TEACHERS JOURNAL**

*Autumn 1989*  
*Vol. 26 (2)*

*ISSN No. 0021-0676*

# THE IOWA SCIENCE TEACHERS JOURNAL

*The Iowa Science Teachers Journal* is co-sponsored by the Iowa Academy of Science and the University of Northern Iowa through the Office of the Provost and Price Laboratory School. The journal is dedicated to the improvement of science teaching and to the stimulation of interest in scientific studies. The journal is published tri-annually.

## SUBSCRIPTION

For subscriptions, circulation data, additional copies and change of address, write the Managing Editor, *ISTJ*, Iowa Academy of Science, P. O. Box 868, Cedar Falls, IA 50613. Single copies may be obtained for \$3; a year's subscription is \$9.00.

## PUBLICATION POLICY

Manuscripts for publication will be received from all individuals interested in science education at any academic level. Preferential treatment will be given to Academy members and to papers with topics of special scientific and educational interest to science educators in Iowa.

All non-solicited manuscripts submitted to the editor will be reviewed by two authorities in the area concerned. All manuscripts must be typewritten, double-spaced on one side of a sheet and submitted in triplicate. Refer to recent issues of *ISTJ* for examples of the uniform reference format which is required. Every attempt will be made to publish papers within a year after approval for publication. News items will be published promptly. Publication deadlines are March 31, September 30 and December 31.


For information concerning news items, announcements or articles, contact Carl W. Bollwinkel, Ph.D., Editor, *Iowa Science Teachers Journal*, Department of Teaching, Price Laboratory School, University of Northern Iowa, Cedar Falls, IA 50613.

Copyright 1989 by the Iowa Academy of Science. Permission to reprint in non-profit journals may be obtained by writing the Editor of the *Iowa Science Teachers Journal*. Permission will be granted with the condition that reprinted articles are accompanied by author and *ISTJ* credit. Requests for commercial use should also be addressed to the editor.

## Responsibility

Experiments, laboratory exercises, lecture demonstrations and other descriptions of the use of chemicals, apparatus and instruments are presented in this journal as illustrative and directed at qualified teachers. Although every effort is made to insure and encourage safe practices and safe use of chemicals, *ISTJ* cannot assume responsibility for uses made of its published materials. All teachers planning to use materials from our pages should make choices and develop procedures for laboratory and classroom safety in accordance with local needs and situations.

Contents

- 2 A COMPARATIVE SUMMARY OF INSTRUCTIONAL SCIENCE MATERIALS AND OUTDOOR EXPERIENCES FOR STUDENTS IN IOWA ELEMENTARY SCHOOLS FROM 1980-1987  
*Greg Stefanich, Mary Norton and Jan Anderson* 
- 14 THE BREAKFAST FOOD CHALLENGE: HELPING TO MEET PERSONAL NEEDS IN THE SCIENCE CLASSROOM  
*Harold R. Hungerford and Kevin C. Wise*
- 20 INEXPENSIVE COMPUTER SOFTWARE FOR SCIENCE TEACHING IN IOWA SCHOOLS  
*John B. Cook*
- 26 WOODROW WILSON NATIONAL SCIENCE LEADERSHIP PROGRAM: PRINCETON, 1989  
*Paul D. Jones*
- 27 A MESSAGE FROM YOUR NEW STATE SCIENCE CONSULTANT  
*W. Tony Heiting*

---

Departments

- |                       |                     |
|-----------------------|---------------------|
| 29 ASTRONOMY BULLETIN | 50 SCIENCE CALENDAR |
| 35 SCIENCE NOTES      | 56 EDITOR'S CORNER  |
- 



This symbol identifies articles of particular interest to elementary teachers of science.

**The Cover**

The cover art work, "Belted Kingfisher on the Cedar River,"  
was drawn by

**Ed Harris**

Harris is an Associate Professor of Teaching-Art at  
Price Laboratory School  
University of Northern Iowa